

**LASER DIODE ARRAYS WITH REPLACEABLE LASER DIODE BARS AND
METHODS OF REMOVING AND REPLACING LASER DIODE BARS**

ABSTRACT OF THE DISCLOSURE

The laser diode arrays with removable linear laser diode bars and the methods of removing and replacing linear laser diode bars of the present invention provide easy and immediate removal of individual linear laser diode bars in laser diode arrays.

- 5 The laser diode array is at least partially made of a plurality of removable linear laser diode bars and a plurality of spacers, such that each removable linear laser diode bar is disposed between a respective pair of spacers. A linear laser diode bar may be slideably removed from between the respective pair of spacers in the laser diode array without breaking any mechanical connection between the removable linear laser diode
- 10 bar and the respective pair of spacers. A replacement linear laser diode bar may then be slideably inserted between the respective pair of spacers without forming a mechanical connection between the replacement linear laser diode bar and the spacers.

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